

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

Guarnieri

Appl. No. 09/183,267

Filed: October 30, 1998

For: **Computational Protein  
Probing to Identify Binding  
Sites**

Confirmation No. 2934

Art Unit: 1631

Examiner: Borin, Michael L.

Atty. Docket: 1866.0010001/PEG/CMB

**Second Supplemental Information Disclosure Statement**

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement originally filed March 29, 2001, but submitted again herewith, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

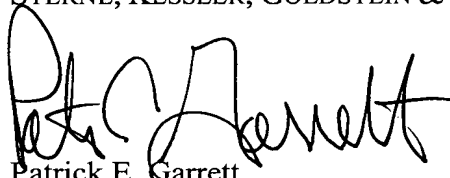
This Second Supplemental Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

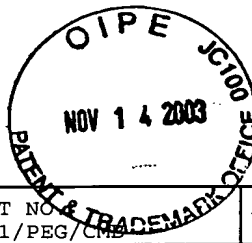
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Patrick E. Garrett", is written over the printed name.

Patrick E. Garrett  
Attorney for Applicant  
Registration No. 39,987

Date: 11/14/03

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1866.0010001/PEG/CMS	APPLICATION NO. 09/183,267
	APPLICANT Guarnieri	
	FILING DATE October 30, 1998	GROUP 1631

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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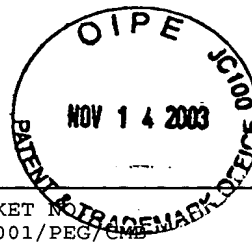
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Dennis, S., et al., "Computational mapping identifies the binding sites of organic solvents on proteins," <i>Proc. Natl. Acad. Sci. USA</i> 99:4290-4295, National Academy of Sciences (April 2002)
	AS	3	Ding, X., et al., "Nature of the Inactivation of Elastase by N-Peptidyl-O-aroyle hydroxylamine as a Function of pH," <i>Biochemistry</i> 34:7749-7756, American Chemical Society (1995)
	AT	3	Honma, T., "Recent Advances in De Novo Design Strategy for Practical Lead Identification," <i>Med. Res. Rev.</i> 23:606-632, Wiley (September 2003)

EXAMINER	DATE CONSIDERED
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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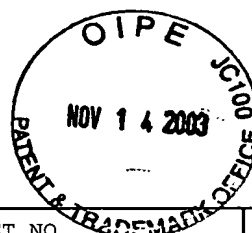
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Johnson, P.M., "Resonance ionization spectra as a reflection of excited state dynamics," <i>Inst. Phys. Conf. Ser. No 114: Section 4:145-150</i> , IOP Publishing Ltd. (1991)
	AS	<u>4</u>	Kortemme, T., and Baker, D., "A simple physical model for binding energy hot spots in protein-protein complexes," <i>Proc. Natl. Acad. Sci. USA 99:14116-14121</i> , National Academy of Sciences (October 2002)
	AT	<u>4</u>	Massova, I., and Kollman, P.A., "Computational Alanine Scanning to Probe Protein-Protein Interactions: A Novel Approach To Evaluate Binding Free Energies," <i>J. Am. Chem. Soc. 121:8133-8143</i> , American Chemical Society (Published in Print: September 1999, Published on Web: August 31, 1999)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>5</u>	Mattos, C., et al., "Analogous inhibitors of elastase do not always bind analogously," <i>Struct. Biol.</i> 1:55-58, Nature Publishing Co. (1994)
AS	<u>5</u>	Mattos, C., et al., "Structural Analysis of the Active Site of Porcine Pancreatic Elastase Based on the X-ray Crystal Structures of Complexes with Trifluoroacetyl-Dipeptide-Anilide Inhibitors," <i>Biochemistry</i> 34:3193-3203, American Chemical Society (1995)
AT	<u>5</u>	International Search Report for International Application No., PCT/US03/07366, Sarnoff Corporation, filed March 11, 2003, International Searching Authority/US, Alexandria, Virginia, (mailed October 30, 2003)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	6	Calafat, A.M., et al., "A New Arrangement for the Anticancer Antibiotics Tallysomyacin and Bleomycin When Bound to Zinc: An Assessment of Metal and Ligand Chirality by NMR and Molecular Dynamics," J. Am. Chem. Soc. 119:3656-3664, American Chemical Society (April 1997)
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